

Anhang 1

Einleitung zum Lernzielkatalog Allgemeine Innere Medizin

Entstehungsgeschichte

Der vorliegende Lernzielkatalog (LZK) der Allgemeinen Inneren Medizin aus dem Jahr 2021 ersetzt die verschiedenen vorhergehenden Versionen. Die Inhalte wurden gestrafft und inhaltlich mit denjenigen der UEMS (Union Européenne des Médecins Spécialistes) abgeglichen, wobei er deutlich mehr enthält als die «Training requirements for the specialty of internal medicine» der UEMS. Er erfüllt sowohl in Struktur als auch in Inhalt die Anforderungen der Kompetenzbasierten Medizin.

Die inhaltliche Einteilung in Basis- und Aufbauweiterbildung wird verlassen, weil diese nicht der Arbeitsrealität entspricht. Je nach gewähltem Curriculum wird das medizinische Wissen in unterschiedlicher Reihenfolge erworben.

Der LZK erhebt keinen Anspruch auf Vollständigkeit; er wird kontinuierlich bearbeitet werden. Ebenso ist er bewusst allgemein gehalten und berücksichtigt die individuelle Situation der Weiterzubildenden nicht.

Was er ist

Der LZK ist, wie sein Name sagt, ein Katalog. Ein Nachschlagewerk und auch Grundlage der prüfungsrelevanten Themen. Er stellt das medizinische Faktenwissen und die Handlungskompetenz des eigenverantwortlichen Arbeitens eines Facharztes oder einer Fachärztin für Allgemeine Innere Medizin in den Fokus.

Er gibt den Weiterzubildenden ebenso wie den Weiterbildungsstätten eine Art Kompass.

Was er nicht ist

Der LZK ist keine Checkliste, die abgearbeitet werden muss.

Gewählte Struktur

Die Struktur orientiert sich an der Struktur der «Principal Relevant Objectives and Framework for Integrated Learning and Education in Switzerland» (PROFILES: www.profilesmed.ch) des Medizinstudiums, um ein Kontinuum von der Aus- in die Weiterbildung zu gewährleisten. So stehen in der ersten Spalte nicht die Diagnosen, sondern die «Situations as starting points» (SSPs, 1. Spalte): diese entsprechen Symptome und Befunde, wie sie uns die Patienten und Patientinnen präsentieren.

Diesen SSPs werden in der Rubrik «Faktenwissen und Begründungswissen» die Krankheitsbilder zugeordnet (2. und 3. Spalte).

In den nächsten Spalten werden die Handlungskompetenzen zugeordnet und unterteilt, ob sie eigenverantwortlich und interdisziplinär sind. Damit ist auch bereits die Integration zukünftiger EPAs (entrustable professional activities) in den Katalog vorbereitet.

Definition Eigenverantwortliche Handlungskompetenz (4. Spalte):

Die Formulierung ist im Katalog auf Deutsch und Englisch notiert:

Englische Version:

Independent action competence: Clinical presentations and diseases which each internist is able to diagnose and treat independently and for which he/she possesses appropriate knowledge of the prognosis and likely response to therapy (Diagnosis and therapy)

Deutsche Version

Eigenverantwortliche Handlungskompetenz: Die Fachärzte und Fachärztinnen sind fähig, klinische Bilder und Erkrankungen zu diagnostizieren und eigenverantwortlich zu behandeln. Sie wissen über deren Prognose Bescheid und kennen die Wirksamkeit der etablierten Therapie.

Definition Interdisziplinäre Handlungskompetenz (5. Spalte):

Englische Version:

Action competence in the interdisciplinary setting: clinical presentations and diseases for which the internist is able to initiate a diagnostic and therapeutic plan, but where (sub)specialty consultation or referral is warranted (if necessary). (Diagnosis, therapy and timely referral).

Deutsche Version:

Handlungskompetenz im interdisziplinären Setting: Die Fachärzte und Fachärztinnen sind fähig, ein diagnostisches Konzept zu erstellen und einen Therapieplan zu entwickeln. Die Behandlung erfolgt entweder zusammen mit einer Subspezialität oder der Patient oder die Patientin wird weitergewiesen, wenn die Behandlung nicht abschliessend durch die Spitalinternistin oder der Hausarzt erfolgen kann. (Diagnostischer und therapeutischer Plan und Weiterweisung).

Diese Einteilung unterscheidet die Curricula zum Spitalinternist oder zur Hausärztin. Diese Abgrenzung ist je nach individueller Laufbahn und Gewichtung oft unscharf. Sie soll aber helfen, um die Schwerpunkte der beiden Gebiete zu umreissen.

Skills

Die Skills aus den früheren LZK wurden durchgesehen. Wir verzichten bewusst auf eine vorgeschriebene Anzahl durchgeführter Prozeduren. Die Weiterbildung wird individuell gestaltet. Es ist Aufgabe jedes einzelnen, sich die für ihn oder sie relevanten Skills anzueignen. Skills werden während der Weiterbildung mittels Arbeitsplatz-basierten Assessments überprüft.

Gebrauchsanweisung

Gebrauchsanweisung für die Weiterbildner/innen und Weiterbildungsstätten

Die Weiterbildungsstätten können anhand der SSPs ihr Weiterbildungsprofil definieren. Auch können sie die verschiedenen Handlungskompetenzen ihrer Assistenten und Assistentinnen klären, und daraus individuelle Lernziele für die entsprechenden Weiterbildungsperioden erarbeiten.

Lernzielkatalog Allgemeine Innere Medizin

SSP Number	SSPs Definition¹ A set of generic situations which cover common circumstances, symptoms, complaints and findings that the physician should be able to manage at the end of his/her specialist training.	Factual knowledge and reasoning knowledge² Covers theoretical knowledge clinical presentations and diseases for the entire specialty of general internal medicine: actual learning objectives catalog with accumulation of diagnoses and clinical pictures (MC exam).	Independent action competence Clinical presentations and diseases which each internist is able to diagnose and treat independently and for which he/she possesses appropriate knowledge of the prognosis and likely response to therapy (Diagnosis and therapy)		Action competence in the interdisciplinary setting Clinical presentations and diseases for which the internist is able to initiate a diagnostic and therapeutic plan, but where (sub)specialty consultation or referral is warranted (if necessary) (Diagnosis, therapy and timely referral)		PROFILES SSPs REFERENCE NR
			Assignment		Assignment		
			Family doctor General practitioner	Hospital internist	Family doctor General practitioner	Hospital internist	
	1. GENERAL COMPLAINTS AND SYMPTOMS / FINDINGS						
1	Abnormal perspiration	Infections (e.g. viral, bacterial, parasitic) Endocrine causes (e.g. menopause, hyperthyroidism) Neurologic causes (e.g. autonomic dysreflexia) Medications	X	X			1
1		Infections (e.g. tuberculosis, malaria, HIV) Malignancies (e.g. Lymphoma (Hodgkin, NHL), solid malignancies) Pheochromocytoma, carcinoid syndrome, insulinoma psychiatric disorders		X	X	X	1
2	Lymphadenopathy Splenomegaly	Infections (e.g. viral, bacterial, toxoplasmosis) Lymphangitis, Lymphadenitis Paragangliomas	X	X			2

¹ Source: PROFILES, p 26 / profilesmed.ch

² Sources:

1. Training Requirements for the Specialty of Internal Medicine. Union Européenne des Médecins, 2016. www.uems.net

2. Lernzielkataloge AIM

SSP Number	SSPs Definition	Factual knowledge and reasoning knowledge	Independent action competence (Diagnosis and therapy)		Action competence in the interdisciplinary setting (Diagnosis, therapy and timely referral)		PROFILES SSPs REFERENCE NR
			Assignment		Assignment		
			Family doctor General practitioner	Hospital Internist	Family doctor General practitioner	Hospital Internist	
2		sexually transmitted diseases Immunologic causes (e.g. serum sickness, M. Still, Tuberculosis) Rheumatic diseases, sarcoidosis		X	X	X	2
2		Infections (HIV) Malignancies: e.g. lymphoproliferative diseases, solid malignancies (metastases)			X	X	2
3	Fatigue, tiredness	Infections, post-infectious disease syndrome Anemia Cardiopulmonary diseases (e.g. heart failure, COPD) Endocrinologic/metabolic diseases (e.g. thyroid dysfunction) Chronic renal or hepatic disease, adrenal insufficiency, electrolyte abnormalities Chronic fatigue syndrome; psychiatric disorders; fibromyalgia, polymyalgia rheumatica Medication-/substance-related	X	X			4
3		Cardiac conduction abnormalities, Malignancies Sleep disorders, sleep apnea, OSAS, OHS			X	X	4
4	Fever, chills, hyperthermia	Infections (e.g. viral, bacterial, parasitic) e.g. Borreliosis, Mononucleosis Fever in travellers Fever of unknown origin Drug fever Psychogenic fever	X	X			5; 6
4		Complicated bacterial and viral infections (e.g. abscesses), sepsis, septic shock Nosocomial infections (e.g. ESBL-bacteria, MRSA, C. difficile infection), tuberculosis				X	5; 6

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			Assignment		Assignment		
			Family doctor General practitioner	Hospital Internist	Family doctor General practitioner	Hospital Internist	
		Endovascular and device-related infection, infected prosthesis, endocarditis Fever in immunocompromised host, malignancies, paraneoplastic syndromes, tumor lysis syndromes Periodic fever syndromes Fever in systemic diseases, thyrotoxicosis					
5	Flushing	Endocrine disorders, menopause Psychiatric disorders			X	X	7
6	Hypothermia	Cold exposure Intoxication Endocrine causes Medication		X	X		8
6		Sepsis Severe burns, trauma Endocrine causes: e.g. Hypothalamic hypothermia, panhypopituitarism				X	8
7	Itching	Infections (e.g. parasitic) Allergic diseases, urticaria Medication-related Pregnancy Psychiatric disorders	X	X			9
7		Chronic renal or hepatic diseases Metabolic diseases Malignancies, paraneoplastic syndromes Hematologic and autoimmune diseases	X	X	X	X	9
8	Swelling, oedema (diffuse or local)	Heart failure Hypoalbuminemia Venous insufficiency / varicosis / postthrombotic syndrome Medication Idiopathic or cyclic swelling; angioedema Lymphatic oedema	X	X			12
8		Upper extremity thrombosis Inferior or superior vena cava syndrome Chronic hepatic failure; cirrhosis Nephrotic syndrome		X	X	X	12

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			Assignment		Assignment		
			Family doctor General practitioner	Hospital Internist	Family doctor General practitioner	Hospital Internist	
		Protein-losing enteropathy Constrictive pericarditis					
9	Weight gain, obesity	Increased caloric intake, sedentary life-style Bulimia / Binge-eating disorder Endocrine diseases: e.g. hypothyroidism, Medication-related	X	X			15
9		Endocrine, neurological and psychiatric diseases (e.g. Cushing's disease and syndrome, polycystic ovary syndrome)		-	X	X	15
10	Weight loss, loss of appetite	Decreased caloric intake Medication-related Hyperthyroidism/thyrotoxicosis Postoperative states: post-bariatric surgery Psychiatric and eating disorders; anorexia Infections Systemic diseases	X	X			16
10		Chronic diseases: pulmonary / cardiac cachexia; chronic kidney disease Endocrinologic diseases Malabsorption (e.g. pancreatic disease, coeliac disease) Malignancies	X	X	X	X	16
	2. SPECIFIC COMPLAINTS AND SYMPTOMS		-	-			
	HEAD, EYES, EARS and NECK SKILLS						
		Removal of foreign bodies from conjunctiva and cornea, ointment / droplet application, eye dressings Fluorescein test/examination Extraction of cerumen, ear irrigation Application of nasal tamponades	X				
11	Traumatic eye injury	Subconjunctival bleeding; foreign body			X	X	
11		Injuries of the eye-lid and cornea Contusio bulbi	-	-	X	X	

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			Family doctor General practitioner	Hospital Internist	Family doctor General practitioner	Hospital Internist	
12	Visual disturbances, photophobia, light flashes, floating objects, diplopia, blurred vision; amblyopia; night blindness	Strabismus, myosis, mydriasis Migraine Mouches volantes Medication	X	X	X		36; 39; 21;2
12		Disorders of the nervous system Amaurosis fugax			X	X	39
13	Acute and gradual loss of vision (acute, slow, temporary, partial)	Disorders of the nervous system Disorders of the eye / Cataract / Glaucoma Exophthalmos; Acute retinal detachment			X	X	18
13	Painful, red, itchy eyes; eye discharge; blepharospasm	Infections/Conjunctivitis (e.g. bacterial, viral) Dacryocystitis; Allergies Coloboma, Pterygium, Sicca syndrome	X	X			22; 33
13		Acute Glaucoma Inflammation/ Infection: Keratitis, Uveitis (iritis, iridocyclitis); scleritis, episcleritis			X	X	33
14	Swelling of the eyelid, face, lips, nose	Infections (viral, bacterial): blepharitis, rhinitis, parotitis Chalazion, Hordeolum Quincke edema	X	X			37; 38
14	Swelling of the eye / eyelid	Ectropion; entropion; trichiasis			X		37; 38
14		Infections: Mastoiditis, Erysipela, Allergic/anaphylactic reaction Systemic diseases (e.g. nephrotic syndrome) C1-Esterase inhibitor deficiency Malignancy			X	X	37; 38
15	Swelling of the neck	Thyroid diseases: Thyroiditis; Iodine deficiency, multinodular goiter Cysts, e.g. parotid Malignancies, metastases	X	X	X		

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			Family doctor General practitioner	Hospital Internist	Family doctor General practitioner	Hospital Internist	
16	Alteration of voice (hoarseness, aphonia, dysphonia)	Infections allergic reaction	X	X			19
16		Diseases of the nervous system (e.g. Parkinson disease) Vocal cord paralysis Laryngeal cancer			X	X	19
17	Difficulty in swallowing, Stridor, choking, dryness, pain, sore throat, mass in mouth or throat, oral lesions of the mucosa	Infections (Tonsillitis, Pharyngitis; Mononucleosis, Glossitis, etc) Croup / Pseudocroup Sicca syndrome Stomatitis (aphthous, herpetic) Halitosis, Cheilosis Sialolithiasis, sialadenitis	X	X			23; 25; 48; 49; 87
17		Foreign body / Aspiration Vocal cord dysfunction Peritonsillar abscess Tumors Rheumatic diseases, neurological / degenerative diseases			X	X	23; 25; 48; 49
18	Facial, jaw or tooth pain	Infections; e.g. Herpes Arteritis temporalis	X	X	X		23
18		Infections e.g. teeth, abscesses Myocardial infarction Trigeminal neuralgia			X	X	27
19	Hearing impairment: hyper-/ hypacusis, deafness, whistling, earache, discharge	Infections (Otitis externa; media) Tympanic effusion; Cerumen; Trauma Tinnitus, Morbus Menière	X	X			24; 26; 28
19		Acute hearing loss (Hörsturz) Degenerative hearing disorders Malignancies (e.g. Cholesteatoma)			X	X	28
20	Nasal discharge; bleeding nose nasal obstruction	Epistaxis, Infections Trauma; anatomic variance Foreign body	X	X			21; 30; 31
20		Coagulopathy Polyps, teleangiectasia, Malignancies Rheumatic diseases			X	X	30

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			Family doctor General practitioner	Hospital Internist	Family doctor General practitioner	Hospital Internist	
21	Snoring, apnoea, apnoea with arousal	Sleep apnoea syndrome Intoxication (e.g. benzodiazepines, psychoactive drugs) rhinophyma	X	X	X		34; 40
21		Diseases of the nervous system Epilepsy Cardiopulmonary arrest			X	X	34; 40
	SKIN						
	SKILLS	Smears, prick tests, biopsies, excisions, incisions, punch biopsies) Doppler examinations of peripheral vessels	X	X			
22	Lack or loss of hair, excess hair; hyper- or hypopigmentation nail complaints	Degenerative diseases: e.g. alopecia; vitiligo; hirsutism Naevus flammeus, verrucae Unguis incarnatus, paronychia; onychogryphosis Malnutrition Medication/Intoxication Rheumatic diseases Mycosis	X	X			89; 92; 94
22		Endocrinologic disorders Polycystic ovary syndrome Neurofibromatosis (M. Recklinghausen)			X	X	92
23	Rashes, eczema	Infections: Herpes Zoster / VZV- Infections; Measles; Rubella; Varicella, 5-days fever, hand-foot syndrome, scarlet fever Sun burn, Photosensibility Medication / Urticaria	X	X			95
24	Macules, papules, pustules, blisters, ulcers, abscess, bullae, thickening, necrosis, tumors, infected wounds, redness of the skin	Infections, e.g. bacterial Erythema chronicum migrans Erythema nodosum Impetigo Dyshidrosis	X	X			90; 93, 95
24		Malignant / bullous dermatoses Erythema exsudativum multiforme			X	X	

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			Assignment		Assignment		
			Family doctor General practitioner	Hospital Internist	Family doctor General practitioner	Hospital Internist	
		Stevens-Johnson syndrome, Toxic epidermal necrolysis, Desensitisation in drug allergy Hidradenitis suppurativa Hyperkeratosis, ichthyosis Pilonidal cyst, pilonidal abscess Endocarditis					
25	Skin abnormalities:	Infectious / parainfectious diseases (erysipela; cellulitis; phlegmon, scabies, etc.) Systemic (rheumatic diseases), Allergic diseases; allergic dermatitis, urticaria Acne, seborrheic dermatitis Insect bites / stings, lymphangitis Herpes simplex, Arterial/venous diseases Drug induced (lead) Irritation (burns, cold) Verrucae, Lipoma; Naevus, Lichen planus Keloids, Striae, Rosacea,	X	X			90; 93, 95
25		Endocrinologic diseases, Collagenoses (e.g. Sjögren, Scleroderma, Vasculitis) Systemic lupus erythematoses, Sarcoidosis Auto-immune diseases (Neurodermitis, Psoriasis) Necrotizing fasciitis Malignancies: e.g. melanoma squamous cell carcinoma, basal cell carcinoma		X	X	X	90; 93, 95
26	Gangrene / wounds / ulcers	Chronic arterial and venous insufficiency, all states	X	X	X	X	93
26		Chronic skin infections: e.g. fungal (Trichophytia, candida), bacterial Osteomyelitis (acute, chronic)		X		X	93

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			Assignment		Assignment		
			Family doctor General practitioner	Hospital Internist	Family doctor General practitioner	Hospital Internist	
		Tropical infections Acute ischemia of a limb					
27	Anal itching, anal pain, anal protrusion, mucosal lesion	Rheumatic diseases Hemorrhoids, fissures STDs / Infections / Parasites Dermatologic disorders (e.g. contact dermatitis)	X	X			56
27		Prolaps (anal; rectal) Fistula (Ischiorectal) abscess Malignancies				X	56
	WOMEN'S HEALTH / MEN'S HEALTH						
	SKILLS	Routine gynecological examination (bimanual examination; specimen and smear collection in the portio and cervical area); Care of a normal pregnancy and postpartum period Family planning consultation; contraception, interruptio	X				
		Insertion of a bladder catheter, Change of a suprapubic catheter	X	X			
28	Issues related to conception, e.g. infertility and sterilisation	Basic hormonal disturbances, midlife crisis Menopause	X		X		65
29	Women's Health: menstrual symptoms: disorders of menstruation, painful menstruation, premenstrual symptoms; vaginal discharge	Infections: Adnexitis, Salpingitis, Vaginitis Trichomonads; Papilloma, verrucae Hypermenorrhoe, menometrorrhagia, Amenorrhea Endometriosis			X	X	66
29		Abnormal cyclic disorders Abnormal vaginal bleeding; Uterine Tumors (myoma, carcinoma) Uterus prolaps			X	X	66; 78

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			Assignment		Assignment		
			Family doctor General practitioner	Hospital Internist	Family doctor General practitioner	Hospital Internist	
30	Menopausal symptoms	Colpitis; Depression; midlife crisis Hormonal replacement Osteoporosis	X	X			74
31	Basic care to pregnancy, basic pre and post conception screening		X				175; 176; 177
32	Pregnancy and maternal problems	Sheehan syndrome, diabetes insipidus, Diabetes mellitus in pregnancy Post-partum cardiomyopathy Hypertension in pregnancy Premature labor			X	X	29; 18; 17 ;9; 180; 181; 190
33	Gynecomastia, breast lump, breast discharge	Mastitis, Cystic Mastopathy; mastodynia Fibroma, Fibroadenoma; Mastopathia: e.g. Chronic liver disease, drugs Endocrinological disease Carcinoma of the breast			X	X	42
34	Request for genetic counselling	Detection of hereditary diseases, e.g. Haemochromatosis, lactose intolerance, Hemophilia A and B, Thrombophilia, suspicion of rare diseases			X	X	70, 260; 264
35	Men's Health: scrotal pain, swelling, mass Urethral discharge Urinary retention	Infection of the reproductive system (e.g. epididymitis, orchitis) Testicular torsion Hydrocele Cancers (prostate cancer, testicular cancer)			X	X	71; 73; 75; 77
35		Prostatic hyperplasia	X		X		71
36	Sexual complaints and dysfunction; sexually transmitted infection	Sexually transmitted infections, e.g. bacterial vaginosis, vulvovaginal candidiasis Syphilis, Gonorrhoea	X	X			72
37	Atypical sexual development	Hypogonadism Chromosomal anomaly (e.g. Klinefelter)			X	X	72
	HEART AND LUNG						

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			Assignment		Assignment		
			Family doctor General practitioner	Hospital Internist	Family doctor General practitioner	Hospital Internist	
	SKILLS	24-hours blood pressure measurements Stress ECG Nocturnal pulseoxymetry Spirometry, peak flow; Ergometry Instruction of the patient in the use of metered dose inhalers, spacers and nebulizers	X	X			5h, 5j
		POCUS (Point of care ultrasound)	X	X			
		Electroconversion				X	
		Pleural puncture and drainage		X			
38	Acute chest pain	Infection: Uncomplicated pneumonia; Pleuritis Intercostal neuralgia Rib fractures	X	X			51; 204; 47
38		Complicated pneumonia with effusion, empyema Infections (viral, bacterial), e.g. Pericarditis / Myocarditis Mediastinitis, Pancreatitis Acute coronary syndrome Pneumothorax Aortic dissection, all types			X	X	204
39	Chronic chest pain	Thoracic cage: e.g. Tietze syndrome; Hernias, Bornholm syndrome; Costochondritis; Osteochondritis Gastroesophageal reflux; hiatal hernia (Post-)herpetic neuralgia Chronic angina pectoris	X	X			43; 44; 47
39		Malignancies (e.g. Pleural mesothelioma; Metastases)			X	X	
40	Acute and chronic cough Hemoptysis	Bronchitis, acute and chronic Bronchiectasis Tracheitis, acute and chronic Asthma Reflux disease	X	X			45

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			Assignment		Assignment		
			Family doctor General practitioner	Hospital Internist	Family doctor General practitioner	Hospital Internist	
		Pertussis; Parapertussis; Croup; Pseudo-croup					
40		Malignancies Vascular abnormalities			X	X	45
41	Acute dyspnea	Infections: e.g. uncomplicated pneumonia, pleuritis, bronchitis Acute exacerbation of COPD Uncomplicated pulmonary emboli Hyperventilation syndrome Acute asthma attack Acute heart failure Small pneumothorax	X	X			40, 187
41		Severe infections: e.g. pneumonia, ARDS, Severe pulmonary embolism St. asthmaticus Inhalation of toxic substances (CO etc) Pleural effusion; hydrothorax (exsudative, transsudative) Acute valvular heart diseases Acute cardiac ischemia, ventricular septal defect Tension pneumothorax Hemoptysis Metabolic causes (Acidosis)		X	X	X	40; 206
42	Chronic dyspnea	Anemia Chronic cardiac ischemia, angina pectoris Chronic right/left heart failure all types Hypertrophic and dilatative cardiomyopathy Chronic (terminal) cardiac failure/insufficiency Chronic valvular diseases Stable COPD Stable Asthma	X	X	X	X	40
42		Interstitial lung disease, all types; pulmonary fibrosis		X	X	X	40

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			Assignment		Assignment		
			Family doctor General practitioner	Hospital Internist	Family doctor General practitioner	Hospital Internist	
		Sarcoidosis Indications for referral for cardiac/pulmonary transplantation Pleural diseases, effusions Pulmonary hypertension Pulmonary malignancies					
43	Arterial hypertension	Hypertensive crisis Neurovegetative syndromes Intoxications (e.g. cocaine) Drug related (e.g. NSAID)	X	X			214
43		Neuroendocrine tumors Glomerulonephritis/Nephritic syndromes Endocrinological diseases (e.g. hyperthyroidism, hyperaldosteronism, Cushing syndrome)		X	X	X	214
44	Palpitation pulseless patient	(Paroxysmal) atrial fibrillation; AVRT, AVNRT, Sick Sinus syndrome Malignant arrhythmias (e.g. VTs) Pre-excitation syndromes		X	X	X	50, 148
45	Hypotension, Orthostasis; hemodynamic instability	Chronic endocrinological diseases (e.g. hypothyroidism) Neurovegetative syndromes	X	X			131; 214
45		Differential diagnosis of shock (vasoplegic/anaphylactic, hypovolemic, obstructive, cardiogenic, distributive) Acute blood loss Acute endocrinological diseases (e.g. acute adrenal insufficiency) Supraventricular and ventricular arrhythmias (AVB; AF; AVNRT, AVRT, VT, VF) Multiorgan Failure		X		X	131; 214; 215
	ABDOMEN						
	SKILLS	Ascites: puncture, drainage Nasogastric tube positioning Taking care of stomas, PEG, nasogastric	X	X			

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			Assignment		Assignment		
			Family doctor General practitioner	Hospital Internist	Family doctor General practitioner	Hospital Internist	
		tubes Dietary counseling					
		POCUS (Point of care ultrasound)	X	X			
46	Cachexia, Malabsorption, Maldigestion, Malnutrition	Malabsorption, all kinds (e.g. pancreatic disease, coeliac disease) gastrointestinal infections (parasitic, viral, bacterial, fungal) Inflammatory bowel disease, systemic disease			X	X	16; 138
47	Acute abdominal pain	Infections, e.g. acute uncomplicated Cystitis, acute (infectious) Gastroenteritis/Enteritis/Colitis Acute allergic reactions Food intoxication Acute uncomplicated Diverticulitis Uncomplicated gall stones (colic)	X	X			52 203
47		Infections: e.g. Acute (complicated) pancreatitis, cholangitis (peri-)hepatitis, diverticulitis Ileus (paralytic); intestinal perforation Peritonitis (bacterial; CAPD) Ischemic enteritis / colitis splenic thrombosis / infarction		X	X	X	203; 52
47		Infections with call for interventions: e.g. Acute appendicitis, acute cholecystitis splenic rupture acute abdominal aneurysm acute and chronic mesenteric ischemia mechanic/obstructive ileus, all causes				X	52; 203
48	Chronic abdominal pain; Colic, abdominal distention, meteorism, abdominal discomfort, Diarrhea, constipation, abdominal mass	GERD; peptic ulcer disease Irritable bowel syndrome, functional dyspepsia Pelvic inflammatory disease Diverticulosis Dumping syndrome Familial Mediterranean fever		X	X	X	52; 53; 54; 58; 59; 248

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			Assignment		Assignment		
			Family doctor General practitioner	Hospital Internist	Family doctor General practitioner	Hospital Internist	
		Rare infections: e.g. Echinococcosis Ascites, all causes Portal thrombosis Chronic mesenteric ischemia Endocrine disorders					
48		Coeliac disease Chronic pancreatitis, pancreatic cysts Chronic pyelonephritis Pseudomembranous colitis Chronic (osmotic) diarrhea; Steatorrhea Diseases of the abdominal wall, e.g. hernia, diastases Inflammatory bowel disease Barrett oesophagus Colon carcinoma Short bowel syndrome C1-Esterase-inhibitor-deficiency Mastocytosis x Sickle cell crisis Abdominal malignancies; peritoneal carcinomatosis Porphyria Kidney stones			X	X	52 A 53; 54; 58; 59
48		Acute viral hepatitis Acute aethylic / non-aethylic hepatitis Parasitic intestinal infections (e.g. Giardia, Toxocara, Amebiasis, helminthiasis) Paradoxical diarrhea Oligosymptomatic cholelithiasis Drug-related, food intolerance	X	X			52
49	Gastrointestinal bleeding (melena, fresh blood)	Ulcer disease, Oesophageal varices, Mallory-Weiss syndrome; Boerhave syndrome) Diverticulosis, Tumors of the GI tract, Angiodysplasias				X	57; 52; 165; 215

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			Assignment		Assignment		
			Family doctor General practitioner	Hospital Internist	Family doctor General practitioner	Hospital Internist	
		Drug-related (anticoagulation, NSAR) Intestinal ischemia					
50	Abnormal liver enzymes	Hepatitis (viral, toxic, NASH autoimmune) NAFLD Malignancy (HCC, metastases) Hemochromatosis Cirrhosis Infiltrative diseases of the liver Lysosomal and other storage disorders of the liver			X	X	160
51	Jaundice (icterus)	Pseudoicterus Drugs / Morbus Meulengracht	X	X			91
51		Acute biliary (intrahepatic and posthepatic) obstruction: neoplastic (cholangiocarcinoma, Klatskin tumor), infectious (helminthic), stones Hemolysis Chronic infectious and autoimmune hepatitis Intoxication (e.g. paracetamol) Acute hepatic failure Chronic hepatic failure Indication for referral for liver transplantation			X	X	91
52	Nausea, vomiting, dysphagia, regurgitation	Peptic ulcer disease, Intestinal obstruction, gastroparesis Neurologic causes: e.g. increased intracranial pressure Endocrinologic and metabolic causes: e.g. pregnancy, uremia, diabetic ketoacidosis, Addison's disease, hyper-/hypoparathyroidism, acute intermittent porphyria. Cardiac causes: e.g. myocardial infarction Zenker diverticulum, neuromuscular origin Medications			X	X	61
52		Stomatitis (aphthous, herpetic, Candida) Uncomplicated Gastroenteritis	X	X			60; 55

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			Assignment		Assignment		
			Family doctor General practitioner	Hospital Internist	Family doctor General practitioner	Hospital Internist	
		Nonulcer dyspepsia, functional dyspepsia Migraine Psychiatric causes: e.g. psychogenic, anxiety disorders, eating disorders ENT causes: e.g. Morbus Menière, labyrinthitis Medications					
53	Faecal incontinence, altered defecation pattern, mucus, pus in feces, anal itching, anal pain, anal protrusion, mucosal lesion	Anal fissure/eczema Anal/rectal prolaps Proctitis, hemorrhoids	X	X			57; 60
	KIDNEYS, URINARY TRACT						
	SKILLS	Urinary catheterisation Ultrasound of kidneys and bladder	X	X			
54	Polyuria, polydipsia	Psychiatric disorders Hyperglycemia / osmotic diuresis Drug-related	X	X			3; 63
54		Central diabetes insipidus Nephrogenic diabetes insipidus Polyuric phase after AKI		X	X	X	63
55	Dysuria, pollakisuria, pyuria, haematuria	Lower urinary tract symptoms (LUTS) Urinary tract infections	X	X			63; 75; 76; 77
55		Urolithiasis; Obstructive Nephropathies Urothelial cancer			X	X	63; 75; 76; 77
55		Haemoglobinuria / Hemolysis Myoglobinuria		X		X	63; 75; 76; 77
56	Elevated renal parameters Abnormal urine sediment Microalbuminuria, Proteinuria	Medication-related (e.g. ACEI) Stable Chronic kidney disease stages 1-3, differential diagnosis Stable Diabetes mellitus I and II	X	X			161; 172; 173

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			Assignment		Assignment		
			Family doctor General practitioner	Hospital Internist	Family doctor General practitioner	Hospital Internist	
56		Acute renal failure, Differential diagnosis Interstitial renal diseases, nephrotic syndrome Glomerulonephritis, acute and chronic Polycystic kidney disease Hereditary renal diseases Drugs Post-transplant kidney disease Papillary necrosis TTP, Haemolytic uremic syndrome Paraproteinaemia, amyloidosis			X	X	205
57	Abnormal Electrolytes	Hyper/Hypokalemia Hyper/Hyponatremia Hyper/Hypocalcemia Hyper/Hypomagnesiemia Hyper/Hypophosphatemia Hyper/Hypochloremia	X	X			156
57		Renal Replacement Therapy				X	205; 211
57		Metabolic and respiratory acidosis/alkalosis	X	X			41; 143; 150
	MUSCULOSCELETAL SYMPTOMS						
	SKILLS	Intraarticular punctions / Infiltration of knee, shoulder, finger, toes	X				
		Knowledge of interventional and surgical treatment options Knowledge of postoperative care for major orthopedic procedures	X	X			
58	Isolated back pain	Lumbovertebral syndrome; degenerative disease of the spine; osteoporosis Somatoform diseases Pyelonephritis	X	X			10; 81; 82

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			Family doctor General practitioner	Hospital Internist	Family doctor General practitioner	Hospital Internist	
58		Rheumatic diseases Renal diseases (e.g. Nephritis, Nephrolithiasis)	X	X	X	X	81; 86
58		Malignancies; Metastases Trauma			X	X	82
58		Radicular pain and Radiculopathy due to local inflammation or neural compression Spinal canal stenosis	X	X	X	X	
58		Spondylitis, Spondylodiscitis; intradural / extradural abscesses		X		X	
59	Neck stiffness and pain	Degenerative musculoskeletal diseases Torticollis; Myotendinosis	X	X			32
59		Bacterial, parasitic and viral infections (Meningitis, abscesses, etc) Carotid dissection		X		X	32
60	Abnormal posture, deformities of skeleton and joints swollen or painful joint/joints, morning stiffness, reduction of joint motility	Rheumatic diseases: Polymyalgia rheumatica, Arteritis temporalis, seropositive and seronegative Polyarthritis, Sclerodermia, Ankylosing Spondylitis, Soft tissue rheumatism Metabolic diseases; M. Paget / Endocrinological / Immunological diseases Dupuytren Contraction; synovial cysts, ganglions,			X	X	81; 83; 86
60		Degenerative: Chondropathies, arthropathies (degenerative) Frozen shoulder; periarthropathia humeroscapularis Mono-Arthritis (infectious, post-infectious, crystals, pseudogout, gout) Tendinitis all localisations, epicondylitis Peri-articular pain syndromes (reactive bursitis, tendinitis)	X	X			81; 83; 86

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			Assignment		Assignment		
			Family doctor General practitioner	Hospital Internist	Family doctor General practitioner	Hospital Internist	
60		Dislocations, fractures, luxations Dupuytren CTS Sudeck dystrophy Charcot foot Haemarthros; Bursitis	X		X	X	81; 83; 86
61	Myalgia	Fibromyalgia Somatoform diseases; medication-related Lyme disease Influenza, Corona	X	X			84
61		Small vessel vasculitis Paraneoplastic syndrome			X	X	84
	NEUROLOGICAL SYMPTOMS						
	SKILLS	Lumbar puncture		X			
		Position Maneuver (Epley, Hallpike etc) Geriatric tests (e.g. MoCA, TUG, MMS, DEMMI, GDS)	X	X			
62	Change in mood, and behaviour	Panic disorder, fear Attention deficits Psychiatric disorders or reactive disorders Depression, Suicidality; Burnout Borderline disorders; Personality disorders Drugs / Substance abuse Climacterium	X	X	X	X	118; 119; 120; 121; 122; 123; 124; 125; 128; 129; 130; 213
62		Hyperventilation Sleep disturbances (SAS) Chronic fatigue syndrome	X	X			11; 118; 119; 122; 213
62		Wernicke-Korsakoff encephalopathy Transient global amnesia Delirium			X	X	118; 119; 122;

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			Assignment		Assignment		
			Family doctor General practitioner	Hospital Internist	Family doctor General practitioner	Hospital Internist	
		Post-infectious syndromes Degenerative nervous system diseases (e.g. Alzheimer Dementia, Dementia, Parkinsonism) Absences, Epilepsy all types, status epilepticus Intoxication Endocrinological disease (e.g. hypothyroidism)					126 213
62		Acute psychiatric decompensation (Psychosis, acute suicidality, acute schizophrenia)			X	X	119
63	Acute symptoms of the central nervous system: Drowsiness, somnolence, coma; Confusion, Delirium Disorganized gait, speech,	Commotio/contusio cerebri Dehydration Hyperosmolar hyperglycemia, Hypoglycemia Drug / Alcohol abuse; Withdrawal syndromes Hyperventilation hypothyroidism Psychiatric disorders	X	X			126; 205
63		Meningitis, encephalitis (bacterial and viral) Ischemic and hemorrhagic stroke, all types Seizures, convulsion, St. epilepticus, post-ictal state Intoxication (e.g. heroin, sedatives) with specific consequences (mechanical ventilation, hemodialysis) Acid-based disorders (e.g. Hypercapnia) Electrolyte disorders (e.g. Hypercalcemia, Hyponatremia) Diabetic ketoacidosis; Infection; Sepsis, Septic shock Trauma / Commotio cerebri			X	X	105; 205

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			Assignment		Assignment		
			Family doctor General practitioner	Hospital Internist	Family doctor General practitioner	Hospital Internist	
		Subarachnoid hemorrhage / Subdural hematoma Rhythm and conduction disturbances Brain death, Auto-immune encephalopathy, PRLES M. Parkinson Multiple sclerosis Hepatic encephalopathy Renal failure, uremia Guillain Barré syndrome JC-Encephalitis Cerebral Malignancies, Metastases					
64	Subacute/chronic symptoms of the central nervous system	Essential tremor	X			X	98
65	Tremor, tic, abnormal involuntary movements	M. Parkinson Psychiatric disorders, Neurological disorders			X	X	98
66	Symptoms of the peripheral nervous system, acute paralysis Asymmetric face burning, numbness of the extremities Abnormal gait	Peripheral neuropathy due to systemic diseases (e.g. D.mellitus, drugs, alcohol) Herpes Zoster Cranial nerve disorders (e.g. Trigeminal-Neuralgia, Oculomotorius Paresis) Restless leg syndrome	X	X			85; 20; 97; 103, 104
66		Infections: borreliosis, viral,bacterial; traumatic, neoplastic; idiopathic palsy (Bell's palsy); Poliomyelitis Amyotrophic lateral sclerosis Cauda equina syndrome Horner syndrome Myasthenia gravis			X	X	103
67	Vertigo	Benign Paroxysmal Positional Vertigo Neuritis vestibularis M. Menière	X	X			17; 52; 96; 100
67		TIA; Stroke, Wallenberg syndrome				X	17; 52; 96

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			Assignment		Assignment		
			Family doctor General practitioner	Hospital Internist	Family doctor General practitioner	Hospital Internist	
68	Acute and chronic headache	Migraine and related disorders (Cluster headache etc) Trigeminus neuralgia Acute and chronic sinusitis Secondary headache due to musculoskeletal deformities; Arteritis temporalis Tension headache, Whiplash injury; Trauma Drug abuse	X	X			101; 207
68		Bacterial and viral meningitis High altitude sickness Sinus vein thrombosis		X		X	101; 207
68		Pseudotumor cerebri / raised intracranial pressure Malignancies, Metastases Carotid dissection				X	101; 207
69	Syncope	Neurocardiogenic syncope Micturition or defecation syncope Orthostatic syncope Drug-induced Hypoglycemia Heat stroke	X	X			149
69		Cardiac rhythm and conduction disturbances (e.g. AVB I-III) Atrial flutter / fibrillation Other atrial tachycardia Ventricular tachycardia Pulmonary embolism / pulmonary hypertension Myocardial infarction Cardiac tamponade Valvular diseases (aortic stenosis) Carotid sinus dysfunction Vertebrobasilar insufficiency			X	X	148; 149
	HEMATOLOGICAL SYMPTOMS						

SSP Number	SSPs Definition	Factual knowledge and reasoning knowledge	Independent action competence (Diagnosis and therapy)		Action competence in the interdisciplinary setting (Diagnosis, therapy and timely referral)		PROFILES SSPs REFERENCE NR
			Assignment		Assignment		
			Family doctor General practitioner	Hospital Internist	Family doctor General practitioner	Hospital Internist	
	SKILLS	Bone marrow biopsy/aspiration		X			
70	Ecchymosis, pallor haematoma, purpura	Thrombocytopenia, anaemia, infection	X	X			88; 147
70		Bleeding under (D)OAC or antiplatelet drugs Nutritional coagulation abnormalities			X	X	63; 88
71	Leukopenia / Leukocytosis	Reactive	X	X			154
71		Acute leukemias Chronic leukemias Neutropenia Agranulocytosis all causes (e.g. neoplastic, drugs, autoimmune)			X	X	154
72	Enhanced bleeding	Bleeding under (D)OAC or antiplatelet drugs Nutritional coagulation abnormalities	X	X			152
72		Disseminated intravascular coagulation DD Coagulopathies, hereditary and acquired: Factor V-Leyden mutation, Thrombophilia, Hemophilia A and B, Von Willebrands Disease, DD Thrombocytopenia, hereditary, acquired (ITP)		X	X	X	152
73	Thromboembolic Situations	Diversity of antithrombotic strategies (incl. bridging) postthrombotic syndrome	X	X			152; 174
73		Hyperviscosity syndrome TTP / HUS Neoplastic syndromes Autoimmune disease-related haemostatic disorders (Lupus anticoagulans etc)			X	X	152; 174
74	Anemia (acute and chronic) and abnormal red blood cell count (incl. Polycythemia)	Anemia of chronic disease Nutritional deficiency (Iron, Vitamins) Hypoxemic polycythemia Chronic blood loss (intestinal, gynaecological) Drugs	X	X			165; 171

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			Family doctor General practitioner	Hospital Internist	Family doctor General practitioner	Hospital Internist	
74		Bone marrow insufficiency, primary and metastatic (e.g. Aplastic anemia, MDS, Osteomyelofibrosis, multiple myeloma, MGUS) (Autoimmune) haemolysis Haemoglobinopathies Polycythemia vera Indication for bloodletting				X	165
75	Transfusion of blood products	Indication for transfusion of blood	X	X			166
75		Indication for transfusion of platelets and plasma Transfusion reactions (e.g. fever, haemolysis, anaphylaxis, TRALI) Transfusion related infections		X			166
	ENDOCRINOLOGICAL SYMPTOMS						
	SKILLS	Perform simple endocrinological tests (GTT, ACTH Tests, adrenocortical suppression test)	X	X			
76	Abnormal glycaemia (Hypo- and Hyperglycemia) and markers of glycaemia homeostasis	Diabetes mellitus Type 2 Antidiabetic treatment and side effects Effect of Training, Sport, Pregnancy	X	X			158
76		Diabetes mellitus Type 1 Insulinoma Antidiabetic treatment and side effects Diabetes mellitus Type 1 and 2 and concomitant diseases (e.g. Sepsis) Hyperosmolar State Ketoacidosis		X	X	X	150; 158; 205
77	Abnormal serum lipids	Acquired and hereditary lipid dysbalances Dyslipoproteinemia	X	X	X	X	162
78	Hormonal abnormalities	Hypo- and Hyperthyroidism Thyroiditis (Hashimoto, de Quervain) Struma, all types Hyper- and Hypocortisolism Osteomalacia	X	X	X	X	163

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			Assignment		Assignment		
			Family doctor General practitioner	Hospital Internist	Family doctor General practitioner	Hospital Internist	
78		(Pan)-Hypopituitarism (tumors, necrosis) Acromegaly Thyrotoxic Crisis Myxoedema Acute adrenocortical insufficiency Primary hyperaldosteronism Pheochromocytoma Autoimmune polyglandular syndromes Growth retardation Hypo- and Hyperparathyroidism			X	X	163
	GERIATRIC SITUATIONS						
	SKILLS	For geriatric examinations, see neurology					
79	General knowledge	Epidemiology of ageing and disability Principles of long-term institutions and home care and financial impact Disability scores; caregivers fatigue	X	X			228
80	Elder abuse and neglect, vulnerable patient	Domestic violence Social isolation Cold exposure, Hypothermia Dehydration Pressure ulcers	X	X			196; 235, 265
80		Osteoporosis Fractures	X	X			196; 235
81	Functional impairment	Presbyakusis Polyneuropathy Sarcopenia; Immobility; Parkinsonism, Falls Sexual dysfunction Urinary incontinence, neurogenic bladder dysfunction Sleep disorders, depression, aggressive behaviour	X	X			198;1 99; 201; 202
81		Macula degeneration Frailty syndrome Memory loss Dementia, all causes, Alzheimer Disease Delirium, all causes	X	X			101; 198;1 99; 201; 202

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82	Malnutrition	Malabsorption / Maldigestion Socioeconomical / financial restrictions Dental and manual impairment	X	X			16; 137; 198
83	Polymorbid polymedicated patient	Atypical presentation of diseases Adaptive metabolism Drug interactions Malcompliance	X	X			199
	INJURIES AND TRAUMA						
	SKILLS	Immobilization of a limb (bandages and hardening bandages, plaster) Finger dislocation Heimlich Manoever	X				
		Local skin anaesthesia Wound cleaning, application and removal of sutures; Application of bandages and dressings; Incisions, Excisions, Trepanations (e.g. nail)	X	X			
84	Burn, cold injury	Burns Grade 1-2	X	X			107; 114; 208
84		Burns >Grade 2 Corrosion (alkali, acids)	X	X	X	X	208
85	Uncomplicated common trauma,	Uncomplicated fractures, Distortions Luxations; Dislocations Uncomplicated wounds and small lacerations, hematomas, contusion, soft tissue bruising Skin abscess, Tetanus and vaccination	X	X			108; 109; 111; 113; 114; 220
86	Severe injuries	Severe lacerations Injuries of the extremities abdominal injury Head and brain injuries and trauma Spine injury Thoracic injury Vascular injury				X	106; 112; 113; 114; 115; 116; 117

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			Family doctor General practitioner	Hospital Internist	Family doctor General practitioner	Hospital Internist	
86		Animal bites			X	X	
87	Preoperative management	obtain informed consent for a procedure	X	X			251
87		evaluation of perioperative risk indication for preoperative checkup: ECG, Radiography Management of perioperative pharmacotherapy		X	X	X	257
88	Postoperative management	Vital signs Volume balance Pain management Enteral/parenteral feeding Anticoagulation Postoperative Infections		X		X	
	PALLIATIVE CARE						
89	Holistic management of an end-of-life situation	Caregivers' fatigue, loss of energy Change in treatment goals End-of-life decisions Advanced care planning Wills Need for psychosocial and spiritual support of all individuals involved	X	X			228; 229; 230; 232
90	Management of refractory symptoms	E.g. pain, dyspnea, nausea, constipation, cachexia, fatigue, asthenia, depression, insomnia, delirium and agitation Conservative treatment of concomitant complaints like Ileus etc. subcutaneous infusion Legal basis for active, passive and indirect euthanasia and assisted suicide in Switzerland.	X	X			231
90		Insufficient control			X	X	
	GENERAL ITEMS / Counseling						
	SKILLS	Insertion of a peripheral intravenous line, planning and managing parenteral administration of drugs					5c
91	Consultation before engaging in sports activities		X	X			221

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92	Immunization plan	Post-Splenectomy immunization Varicella in pregnant / Immunocompromised host Vaccination / travel	X	X			222
93	Request for check-up, health examination, radiologic and laboratory procedures Screening for asymptomatic diseases	Non-cancer / cancer screening recommendation healthy lifestyle	X	X			225; 224
94	Shared assessment of risks and benefits of screening and treating asymptomatic conditions	Tumor markers	X	X			226
95	Shared assessment of risks and protective factors for frequent life compromising diseases, such as cardiovascular metabolic and oncologic diseases promoting healthy lifestyle	Pharmacological measures (Aspirin, Calcium, Vitamin E substance abuse, all sorts)	X				227
96	Environmental and psychosocial aspects of chronic conditions	Mental and spiritual suffering	X	X			245
97	Concern about appearance, body image, sexual orientation	Transsexual development Intersexual development	X	X			234; 237
98	Domestic violence, sexual abuse, rape, harassment, bullying, mobbing		X	X			235
99	Issues related to family life such as divorce, single parent and reconstructed family		X	X			238
100	Loss, death, grieving, process, illness of someone close, mental or spiritual suffering		X	X			239
101	Problems related to work conditions, burnout, unemployment, financial problems		X	X			236; 241
102	Consultation before or after trip to foreign tropical country		X	X			242

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103	Determination of work or school incapacity, absenteeism (school, work)		X	X			233; 243
104	Errors or misconduct of a co-worker or other healthcare professional		X	X	X	X	246
105	Immunocompromised host	Leukemias Specific opportunistic infection (CMV, PCP) Immunodeficiencies (acquired, hereditary) HIV Post-Transplantation Post/intra Chemotherapy			X	X	247
106	Medically unexplained symptoms	Somatoform and functional disorders	X	X			249
107	Patient refusing treatment	Communication Assessment of power of judgement Knowledge about legal concerns Knowledge about alternative treatments	X	X			252
108	Patient with different cultural background, migration		X	X			254
109	Physical and psychosocial inpatient and outpatient rehabilitation	Indication, prognostic factors	X	X			255
110	Poor adherence to treatment	Reasons for malcompliance (e.g. dementia, depression). And knowledge about how to overcome it	X	X			256
111	Request for certificate, attestation or expertise of patients and insurers	Knowledge of the terms "Arbeitsunfähigkeit" (incapacity to work), disability. Basic knowledge of insurance medicine	X	X			258
112	Request for unnecessary investigations and treatment	e.g.: MRI request for normal low back pain, MRI request for normal headache, time to explain and show the facts, danger of imaging without a specific question (e.g. incidentalomas) Knowledge of "Smarter Medicine" Guidelines	X	X			259
113	Request for information related to organ donation	Donor card, lack of organs, limit of transplantation	X	X			261

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			Family doctor General practitioner	Hospital Internist	Family doctor General practitioner	Hospital Internist	
113		Timetable of transplantation				X	261
114	Benefits and risks of complementary medicine	Good clinical practice, knowing the limit of medicine and complementary medicine	X	X			262
115	Suspicion of drug intolerance or interaction (including complementary medicine)	Pharmacotherapy: potency of drugs; efficacy, therapeutic index, loading and maintenance doses under normal conditions, drug administration routes and pharmaceutical forms, prescribing in elderly, drug-to drug and herb-drug-interactions (CYP 450), prescribing in renal/liver disease, adverse drug events (frequency, classification, drug allergy or impairment), placebo treatment	X	X	X	X	263
116	Antibiotic resistance	Choice of antibiotic treatment Antibiotic resistance (e.g. MRSA, ESBL-enterobacteriaceae)			X	X	
117	Death	Determination of death, natural vs unnatural, sudden death Decision for postmortem analysis or involvement of legal authorities	X	X			13, 14
	CHILDREN AND YOUTH SITUATIONS						
	SKILLS	Complete pediatric examination in knowledge of possible thriving and developmental disorders, normal baby and normal child: examination and assessment.	X				
		Participation in interprofessional measures	X	X			
118	Life-threatening situations	Intoxication, Meningitis, Diabetes, breathing problems, convulsions, acute abdomen; bleeding,			X	X	191
119	Behavioral disorders and psychiatric symptoms	Eating disorders, ADHD, adaptive disorders, etc. threats, battered child, autism, mental retardation, bullying, school problems	X		X		185; 186; 192

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			Assignment		Assignment		
			Family doctor General practitioner	Hospital Internist	Family doctor General practitioner	Hospital Internist	
120	Taking care of chronically ill children	Developmental delay micro and macro-cephaly feeding and eating issues; failure to thrive ; irritable crying children	X		X		188, 189, 192
121	Problems related to adolescence and puberty	Dyslexia; stuttering, Pubertas praecox, tardiva	X		X		184; 188
122	Request for contraception or emergency contraception		X				69

Bern, 11.02.2022/pb
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